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NOTICE OF ALLOWANCE AND FEE(S) DUE

24737

7590

04/17/2008

PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510 EXAMINER

NHU, DAVID

ART UNIT PAPER NUMBER

2818 DATE MAILED; 04/17/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,380	06/12/2006	Steven C. Deane	GB030221	5921

TITLE OF INVENTION: ACTIVE MATRIX PIXEL DEVICE WITH PHOTO SENSOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/17/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification a) specifying a new co	of m	naintenance fees will pondence address; an	be mailed to the current d/or (b) indicating a sep-	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 24737 7590 04/17/2008 PHILIPS INTELLECTUAL PROPERTY & STANDAR				Fee(a pape have	s) Transmittal. This c rs. Each additional pa its own certificate of	ertificate cannot be used to the per, such as an assignment mailing or transmission.	or domestic mailings of the for any other accompanying and or formal drawing, must mission g deposited with the United st class mail in an envelope
P.O. BOX 3001 BRIARCLIFF N				I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
							(Depositor's name)
							(Signature) (Date)
A DIVERGA THON NO	EU DIC DATE	T	EIDOVE NA AMEID INIMENE	TOD		PRODNEY DOCKET NO	
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN			GB030221	CONFIRMATION NO.
10/596,380 TITLE OF INVENTION	06/12/2006 I: ACTIVE MATRIX PL	XEL DEVICE WITH PH	Steven C. Deane OTO SENSOR			GD030221	5921
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nonprovisional	NO	\$1440	\$300		\$0	\$1740	07/17/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
NHU, I	DAVID	2818	257-538000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha B/122) attached. ication (or "Fee Address 12 or more recent) attach IND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Com	inge of Correspondence "Indication form led. Use of a Customer A TO BE PRINTED ON T	(1) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent listed, no name wil	ip to rnativ single or a attor Il be p or typ he pa	e firm (having as a megent) and the names of neys or agents. If no printed. e) tent. If an assignee assignment.	ember a 2	ocument has been filed for
4a. The following fee(s) Issue Fee	are submitted:	41	o. Payment of Fee(s): (A check is enclose	Pleas	se first reapply any p	oreviously paid issue fee	oup entity Government
Publication Fee (No small entity discount permitted) Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
a. Applicant claim	tus (from status indicated as SMALL ENTITY statu	is. See 37 CFR 1.27.			<u> </u>	ENTITY status. See 37 C	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	nan th	ne applicant; a register	red attorney or agent; or the	ne assignee or other party in
Authorized Signature					Date		
Typed or printed name					_		
an application. Confiden submitting the complete this form and/or suggest	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is depending upon the i e Chief Information O	s esti indivi iffice:	mated to take 12 min idual case. Any comm r. U.S. Patent and Tra	utes to complete, including the nest on the amount of tindemark Office, U.S. Den	d by the USPTO to process) ag gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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P.O. BOX 3001		ART UNIT	PAPER NUMBER			
BRIARCLIFF MA	ARCLIFF MANOR, NY 10510			2818		
		DATE MAILED; 04/17/2008				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	10/596,380	DEANE, STEVEN C.				
Notice of Allowability	Examiner	Art Unit				
	DAVID NHU	2818				
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOT of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	vilication. If not included will be mailed in due course. THIS				
1. This communication is responsive to <u>4/2/08</u> .						
2. The allowed claim(s) is/are <u>5 and 7-11</u> .						
 Acknowledgment is made of a claim for foreign priority unally all blooms. All blooms continued by a claim for foreign priority unall blooms. Certified copies of the priority documents have compared by a claim of the priority documents have compared by a claim of the priority documents. Copies of the certified copies of the priority documents have compared by a claim of the priority documents. Copies of the certified copies of the priority documents. Copies of the certified copies of the priority documents. 	been received. been received in Application No					
* Certified copies not received:		and the second				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.					
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-9	948) attached				
1) ☐ hereto or 2) ☐ to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal Pa					
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary (Paper No./Mail Date	e				
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🔲 Examiner's Amendr	nent/Comment				
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8.	nt of Reasons for Allowance				
	/David Nhu/ Primary Examiner, Art Unit	2818				

Application/Control Number: 10/596,380 Page 2

Art Unit: 2818

REASONS FOR ALLOWANCE

1. Claims 5, 7-11 are allowed.

2. The following is an examiner's statement of reasons for allowance: None of the references of record teaches or suggests as cited in claims 5, 7: An active matrix pixel device comprising a plurality of polycrystalline silicon islands supported by a substrate, one of the polycrystalline silicon islands providing a channel and doped source/drain regions of a thin film transistor, the active matrix pixel device further comprising a PIN diode which includes a p-type doped region and an n-type doped region separated by an amorphous silicon intrinsic region, wherein the amorphous silicon intrinsic region overlies and contacts at least a part of one of the polycrystalline silicon islands which provides one of the p-type or n-type doped regions of the PIN diode, wherein the doped source/drain regions and said one of the p-type or n-type doped regions of the PIN diode are provided by the same polycrystalline silicon island and a vertical n-i-p stack is used by using a doped region of the polysilicon thin film transistor for the n-type region (as cited in claim 5); An active matrix pixel device comprising a plurality of polycrystalline silicon islands supported by a substrate, one of the polycrystalline silicon islands providing a channel and doped source/drain regions of a thin film transistor, the active matrix pixel device further comprising a PIN diode which includes a p-type doped region and an n-type doped region separated by an amorphous silicon intrinsic region, wherein the amorphous silicon intrinsic region overlies and contacts at least a part of one of the polycrystalline silicon islands which provides one of the p-type or n-type doped regions of the PIN diode, wherein both the p-type and n-type doped regions of the PIN diode are provided by respective ones of the polycrystalline silicon islands, and wherein a distance between the

Application/Control Number: 10/596,380 Page 3

Art Unit: 2818

doped regions is substantially equal to a gap between adjacent thin film transistors (as cited in

claim 7).

3. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the

issue fee. Such submissions should be clearly labeled "Comments on Statement of

Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure: Young (2006/0030084): manufacture of Electronic Devices Comprising Thin Film

Circuit Elements.

5. Any inquiry concerning this communication on earlier communications from the

examiner should be directed to David Nhu, (571)272-1792.

The examiner can normally be reached on Monday-Friday from 7:00 AM to 5:30 PM.

The fax phone number for the organization where this application or proceeding is assigned

is (571)273-8300.

/David Nhu/ 4/12/2008 DN

Primary Examiner, Art Unit 2818

Application/Control Number: 10/596,380

Page 4

Art Unit: 2818